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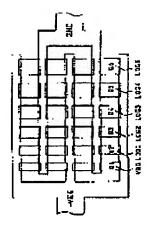
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(54) SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE

(57)Abstract:

PURPOSE: To make working current of a plurality of constant current FETs uniform by adjusting gate width after gate length is made equal to compensate voltage drop due to distribution resistance in a lower potential side wiring for connecting a constant current supply circuit to the constant current FET of each logic circuit. CONSTITUTION: Power supply voltage -VEE is supplied from a left external terminal and split into a plurality of branches to be extended toward the right. On the contrast, ground potential GND of a circuit is supplied from a right external terminal to be split into a plurality of branches to be extended toward the left. Respective circuit blocks are provided between the two current lines -VEE and GND. For example, a circuit block placed on the lowest array comprises a constant current supply circuit VBG and logic circuits LOG1 to LOG5 to which working current is fed by a constant current FET provided in a current mirror form. At this time the constant current FETs increase in size as they come off



from the constant current supply circuit VGB by increasing channel width in the sequence of constant current FETs Q2, Q3, Q4, Q5, Q6. Thus working current of LOG1 to LOG5 can be equalized.